

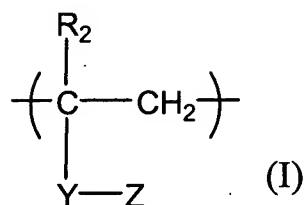
Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

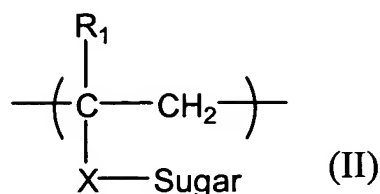
1. (Original) A carrier for nucleic acid molecule delivery comprising a saccharified copolymer having a repeating unit (A) having a cationic group, a repeating unit (B) containing sugar and a repeating unit (C) having a hydrophobic substituent.

2. (Original) The carrier for nucleic acid molecule delivery according to claim 1 wherein the repeating unit (A) having the cationic group is represented by the general formula (I):



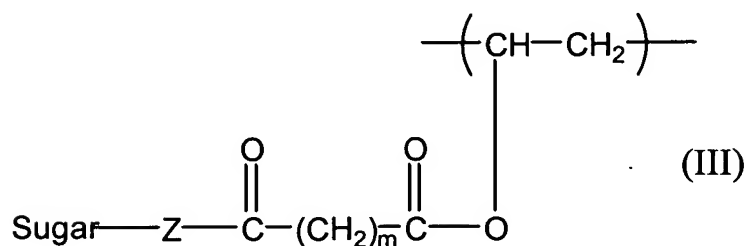
wherein R₂ represents H or CH₃; Y represents -C(=O)O-(CH₂)_{n_y}-, -OC(=O)-(CH₂)_{n_y}-, -OC(=O)-(CH₂)_{n_y}-C(=O) or -CONH-(CH₂)_{n_y}- and n_y represents an integer of 1 to 10; and Z represents -NR₃R₄ (R₃ and R₄ are the same or different and represent hydrocarbon groups having 1 to 10 carbon atoms), -N⁺R₅R₆R₇ (R₅, R₆ and R₇ are the same or different and represent hydrocarbon groups having 1 to 10 carbon atoms) or a nitrogen-containing heterocyclic group.

3. (Original) The carrier for nucleic acid molecule delivery according to claim 1 wherein the repeating unit (B) containing the sugar is represented by the general formula (II):



wherein R_1 represents H or CH_3 ; Sugar represents a sugar residue obtained by removing one NH_2 from a sugar (in the cases of monosaccharide, disaccharide or polysaccharide where the sugar is bound at an amino group in amino sugar) or removing one OH from the sugar (in the cases of monosaccharide, disaccharide or polysaccharide where the sugar is bound at a hydroxyl group in saccharide); and X represents $-\text{C}(=\text{O})\text{Z}^1$, $-\text{C}(=\text{O})\text{O}-\text{R}_a$, $-\text{CONH}-$, $-\text{CONH}-\text{R}_b$, $-\text{OC}(=\text{O})-\text{R}_c$, $-\text{C}(=\text{O})\text{Z}^1$ or $-\text{Ph}-\text{R}_d-\text{Z}^1$ wherein R_a represents $-\text{Ph}-\text{O}-$ or $-(\text{CH}_2)_{n_a}-\text{O}-$ and n_a represents an integer of 1 to 10, R_b represents $-\text{Ph}-\text{O}-$ or $-(\text{CH}_2)_{n_b}-\text{O}-$ and n_b represents an integer of 1 to 10, R_c represents $-(\text{CH}_2)_{n_c}-$ or $-(\text{CH}_2)_{n_c}-\text{Ph}-(\text{CH}_2)_{n_c}-$ and n_c represents an integer of 2 to 18, R_d represents $-\text{CH}_2-$ or $-\text{SO}_2-$, Z^1 represents $-\text{O}-$ or $-\text{NH}-$, and Ph represents (o-, m- or p-) phenylene group.

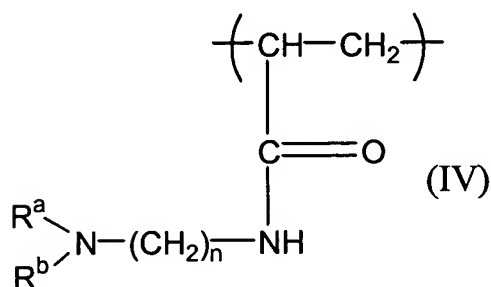
4. (Original) The carrier for nucleic acid molecule delivery according to claim 3 wherein the repeating unit (B) containing the sugar is represented by the following general formula (III):



wherein Sugar represents a sugar residue obtained by removing one NH_2 from a sugar (in the cases of monosaccharide, disaccharide or polysaccharide where the sugar is bound at an amino group in amino sugar) or removing one OH from the sugar (in the cases of monosaccharide,

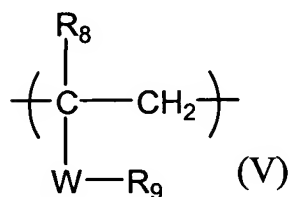
disaccharide or polysaccharide where the sugar is bound at a hydroxyl group in saccharide), m represents an integer of 2 to 10, and Z represents O or NH.

5. (Currently Amended) The carrier for nucleic acid molecule delivery according to ~~any of claims 1 to 3~~ claim 1 wherein the repeating unit (A) having the cationic group is represented by the following general formula (IV):



wherein n represents an integer of 1 to 10, and R^a and R^b may be the same or different and represent alkyl groups having 1 to 4 carbon atoms.

6. (Currently Amended) The carrier for nucleic acid molecule delivery according to ~~any of claims 2 to 4~~ claim 2 wherein the repeating unit (C) having the hydrophobic substituent is represented by the following formula (V):



wherein R₈ represents -H or -CH₃; W represents -C(=O)O-, -OC(=O)-, -OC(=O)-(CH₂)_{n_w}-C(=O)O- or -C(=O)NH and n_w represents an integer of 2 to 18; and R₉ represents a saturated or unsaturated aliphatic or alicyclic hydrocarbon group having 3 to 30 carbon atoms.

7. (Currently Amended) The carrier for nucleic acid molecule delivery according to ~~any of claims 2 to 6~~ claim 2 wherein a molar ratio of the repeating unit (A) + the repeating unit (B) to the repeating unit (C) in the saccharified copolymer is $A + B : C = 99.9:0.1$ to $0.1:99.9$.

8. (Currently Amended) The carrier for nucleic acid molecule delivery according to ~~any of claims 1 to 7~~ claim 1 wherein a weight average molecular weight of the saccharified copolymer is 10,000 to 1,000,000.

9. (Currently Amended) A transfection reagent or a carrier for gene therapy using the carrier for nucleic acid molecule delivery according to ~~any of claims 1 to 8~~ claim 1.

10. (Currently Amended) A method of introducing a DNA into a cell characterized by applying the carrier for nucleic acid molecule delivery according to ~~any of claims 1 to 8~~ claim 1 and the DNA to the cell.

11. (Original) The method according to claim 10 characterized in that said carrier contains a sugar residue and said cell has a receptor for the sugar residue, and a complex of said carrier and the DNA is incorporated into the cell by being mediated via the receptor.